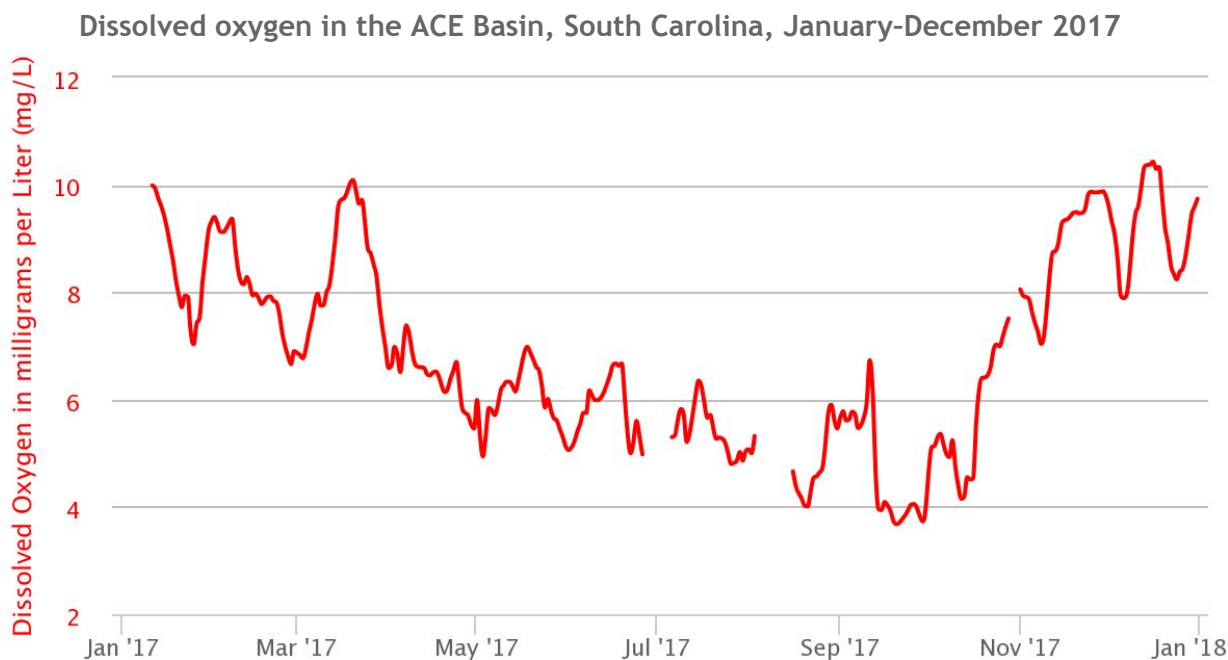


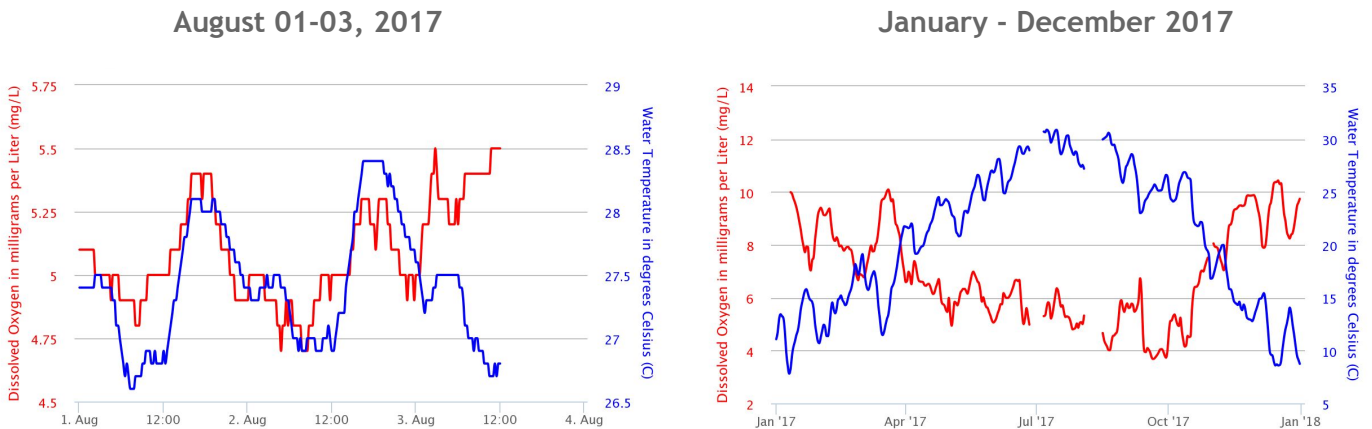
ANALYZING DISSOLVED OXYGEN IN ESTUARIES



Part 1: Instructions: Use the graph above to answer the following questions:

1. Approximately, how much dissolved oxygen was in the water at ACE Basin on January 17, 2017?
 - A. 6 mg/L
 - B. 8 mg/L
 - C. 10 mg/L
 - D. 12 mg/L
2. Dissolved oxygen concentrations were lowest during which month?
 - A. January
 - B. July
 - C. August
 - D. September
3. A fish that lives in the ACE Basin year round would have to be well-adapted to dissolved oxygen concentrations ranging from approximately _____mg/L to _____ mg/L.

Comparing Daily and Seasonal Relationships:
Water Temperature and Dissolved Oxygen in the ACE Basin, South Carolina



Part II: Instructions: Use the graph above to answer the following questions:

1. The first graph shows fluctuations of water temperature and dissolved oxygen over a 2-day period, August 1 - 3, 2017.
 - A) On each day, what time of day was water temperature highest?
 - B) What time of day was dissolved oxygen highest?
2.
 - A) Describe the relationship between water temperature and dissolved oxygen in the first graph.
 - B) Is this what you expected? Why or why not?
 - C) Propose an explanation for the daily fluctuations in dissolved oxygen at ACE Basin on August 1-3, 2017.
3.
 - A) Describe the relationship between water temperature and dissolved oxygen in the second graph.
 - B) What might explain the apparent difference in the relationship of water temperature and dissolved oxygen in the two graphs?